Serial No.: 10/624,443 Attorney Docket No.: AGP-32578(1) (formerly 362.017)

Amendments to the Claims:

- (Withdrawn) A method of feeding an animal comprising feeding the animal a Lactobacillus strain that has a Profile I based on Apa I, Not I and Xba I digests, as shown in Figure 1 and Table 6.
- (Withdrawn) A method of claim 1, wherein the feeding of the Lactobacillus strain decreases levels of at least one of coliforms and E. coli within the gastrointestinal tract of an animal.
- 3. (Withdrawn) The method of claim 1, wherein the strain fed comprises at least one of a L. brevis strain, a L. fermentum strain, and a L. murinus strain.
- (Withdrawn) The method of claim 1, wherein the strain fed comprises L. brevis strain 1E-1.
- (Withdrawn) The method of claim 1, wherein the Lactobacillus strain is isolated from a pig.
- (Withdrawn) The method of claim 1, wherein the Lactobacillus strain is isolated from a pars oesophagea of a pig.
 - 7. (Withdrawn) The method of claim 1, wherein the animal fed is a pig.

Attorney Docket No.: AGP-32578(1) (formerly 362,017)

Serial No.: 10/624.443

8. (Withdrawn) The method of claim 7, wherein the Lactobacillus strain is fed to the pig prior to weaning.

- 9. (Withdrawn) The method of claim 7, wherein the Lactobacillus strain is fed to the pig during weaning.
- 10. (Withdrawn) The method of claim 7, wherein the Lactobacillus strain is fed to the pig after weaning.
- (Withdrawn) The method of claim 1, wherein the animal is fed the Lactobacillus strain such that the amount of Lactobacillus strain delivered to the animal is about 1 x 108 CFU to about 1 x 1010 CFU per day.
- 12. (Withdrawn) The method of claim 11, wherein the animal is fed the Lactobacillus strain such that the amount of Lactobacillus strain delivered to the animal is about 5 x 109 CFU per day.
- (Withdrawn) The method of claim 1, wherein the feeding of the Lactobacillus 13. strain increases performance of the animal.
- 14. (Withdrawn) The method of claim 13, wherein the increase in performance comprises an increase in average daily gain.

Serial No.: 10/624,443

 (Withdrawn) The method of claim 1, wherein the feeding of the Lactobacillus strain improves intestinal morphology.

- (Withdrawn) The method of claim 15, wherein the improvement in intestinal morphology comprises an increase in the villus:crypt ratio in the animal.
- (Withdrawn) The method of claim 15, wherein improvement in intestinal morphology comprises a decrease in the number of sulfuric goblet cells.
- (Withdrawn) The method of claim 1, wherein the feeding of the Lactobacillus strain increases a gain: feed ratio in the animal fed the Lactobacillus strain.
 - 19. (Currently Amended) A direct-fed microbial comprising:
- (a) at least one <u>biologically pure bacterial culture of a Lactobacillus</u> strain that has a Profile I based on Apa I, Not I and Xba I digests, as shown in Figure 1A, Figure 1B, and Table 6; and
 - (b) a carrier.
- (Currently Amended) The direct-fed microbial of claim 19, wherein the
 Lactobacillus strain decreases levels of at least one of coliforms and E. coli-within the
 gastrointestinal tract of an animal.
 - 21. (Currently Amended) The direct-fed microbial of claim 19, wherein the strain

Attorney Docket No.: AGP-32578(1) (formerly 362.017)

comprises is at least one of a L. brevis strain, a L. fermentum strain, and a L. murinus strain.

 (Currently Amended) The direct-fed microbial of claim 19, wherein the strain eomprises is L. brevis strain 1E-1 ATCC Accession No. PTA-6509.

- (Original) The direct-fed microbial of claim 19, wherein the Lactobacillus strain is isolated from a pig.
- (Currently Amended) The direct-fed microbial of claim 19, wherein the Lactobacillus strain is isolated from a-the pars oesophagea of a pig.
- (Original) The direct-fed microbial of claim 19, wherein the carrier comprises a liquid carrier.
- (Original) The direct-fed microbial of claim 25, wherein the liquid carrier comprises a milk replacer.
- (Original) The direct-fed microbial of claim 25, wherein the liquid carrier comprises water.
- 28. (Original) The direct-fed microbial of claim 19, wherein the direct-fed microbial is in the form of gel paste or a drench.

Serial No.: 10/624,443

Serial No.: 10/624,443 Attorney Docket No.: AGP-32578(1) (formerly 362.017)

(Original) The direct-fed microbial of claim 19, wherein the carrier comprises a
gruel feed.

- (Currently Amended) An isolated Lactobacillus strain that has a Profile I based on Apa I, Not I and Xba I digests, as shown in Figure 1A, Figure 1B, and Table 6.
- 31. (Currently Amended) The *Lactobacillus* strain of claim 30, wherein the strain eomprises is at least one of a *L. brevis* strain, a *L. fermentum* strain, and a *L. murinus* strain.
- (Currently Amended) The Lactobacillus strain of claim 30, wherein the strain decreases levels of at least one of coliforms and E. coli-within the gastrointestinal tract of an animal.
- 33. (Currently Amended) The *Lactobacillus* strain of claim 30, wherein the strain is *L. brevis* strain 1E-1 <u>ATCC Accession No. PTA-6509</u>.
- (Original) The Lactobacillus strain of claim 30, wherein the strain is isolated from a pig.
- (Currently Amended) The Lactobacillus strain of claim 30, wherein the strain is isolated from a-the pars oesophagea of a pig.

Serial No.: 10/624,443 Attorney Docket No.: AGP-32578(1) (formerly 362.017)

36. (Withdrawn) A method of forming a direct fed microbial, the method comprising:

- (a) growing, in a liquid nutrient broth, a culture including at least one Lactobacillus strain has a Profile I based on Apa I, Not I and Xba I digests, as shown in Figure 1 and Table 6; and
 - (b) separating the strain from the liquid nutrient broth.
- 37. (Withdrawn) The method of claim 36, wherein the Lactobacillus strain comprises L. brevis strain 1E-1.
- (Withdrawn) The method of claim 36, further comprising freeze-drying the strain 38. to form the direct-fed microbial.
- 39. (Withdrawn) The method of claim 38, further comprising adding the freeze-dried strain to a carrier.
- 40. (New) An isolated Lactobacillus strain that is L. brevis strain 1E-1 ATCC Accession No. PTA-6509 or a Lactobacillus strain having substantially the same genomic DNA profile based on Apa I, Not I and Xba I digests as strain 1E-1.
- 41. (New) The isolated Lactobacillus strain of claim 40, which is ATCC Accession No. PTA-640.

MADISON/729421 1 11 Attorney Docket No.: AGP-32578(1) (formerly 362.017)

Serial No.: 10/624,443 Attorn

42. (New) The isolated *Lactobacillus* strain of claim 40, wherein the *Lactobacillus* strain decreases levels of coliforms within the gastrointestinal tract of an animal.

- (New) An isolated Lactobacillus brevis strain 1E-1 ATCC Accession No. PTA-6509.
- 44. (New) An isolated *Lactobacillus brevis* strain having the identifying characteristics of the *Lactobacillus brevis* strain of claim 43.